

Gulf Cooperation Council

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GSO 2138 (2011) (English): Tea and Herbs Bags (Draft Standard)



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(GSO) STANDARDIZATION ORGANIZATION

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية

Final Draft

GSO 5/ FDS...../2011

Tea and herbs bags

Prepared by:

Gulf technical committee for sector standards of

Food and agriculture products

This document is a draft Gulf standard circulated for comments, it is therefore, subject to alteration and modification, and may not be referred as a Gulf standard, until approved by the Board of Detectors.

Tea and herbs bags

1- Scope and field of application:

This Gulf standard is concerned with different types of tea bags (black- green- flavored) and with different herbs bags.

2-Complementary standards:

- 2.1 GSO (9): Labeling of prepackaged food stuffs.
- 2.2 GSO (21): Hygienic regulations for food plants and their personnel.
- 2.3 GSO (150): Expiration periods of food products.
- 2.4 GSO (168): Conditions of storage facilities for dry and canned food stuffs.
- 2.5 GSO (839): Food packages- Part 1: General requirements.
- 2.6 GSO (988): Limits of radioactivity levels permitted in food stuffs- Part 1.
- 2.7 GSO (1016): Microbiological criteria for food stuffs- Part 1.
- 2.8 GSO (1694): General rules for food hygiene.
- 2.9 GSO/ISO 168: Paper and board- Sampling to determine average quality.
- 2.10 GSO/ISO 5636-1: Paper and board- Determination of air permanence – Part 1:
General method .
- 2.11 GSO/ISO 12625-4, 5: Tissue paper and tissue products- Determination of tensile strength.
- 2.12 GSO/ISO 534: Paper and board- Determination of thickness, density and specific
Volume.
- 2.13 GSO/ISO 15320: Pulp, paper and board- Determination of pentachlorophenol
In an aqueous extract .

2.14 GSO/ISO 10775: Paper, board and pulp- Determination of cadmium content-
Atomic absorption spectrometric method .

2.15 GSO/ISO11475: Paper and board- Determination of whiteness.

2.16 GSO/ISO 287: Paper and board- Determination of moisture content.

2.17 GSO (382,383): Maximum limits for pesticide residues in agricultural and food products- Parts 1,2.

2.18 GSO/ISO 8784-1: Pulp, paper and board- Microbiological examination- Part 1:
Total count of bacteria, yeast and mould based on disintegration .

3-Definitions:

3.1 Tea or herbs bag: Bag for essential function of containing of tea or herbs, and touched the product from inside.

3.2 Food grade matter: Permissible matter used in food for provided safety conditions in it.

3.3 Secondary container: Outside container, put in its main bags for transport, distribution and storage purposes.

3.4 Recycling bag: A bag processed from raw materials not previously used.

4-Requirements:

The following requirements shall be met in the product:

4.1 The packed products (tea or herbs) shall comply with Gulf standards specific to each.

4.2 The production shall be carried out in plants that comply with the requirements mentioned in Gulf standards in items (2.2, 2.8).

4.3 The bags shall be clean and not allow, with any probability, of contaminant of packed matter.

4.4 Using bags shall kept of packed product characteristics, and keep it from
Earning any off odor or flavors .

4.5 Using bags shall provided the protection for the packed product from
Contaminant with microorganisms, insects and rodents .

4.6 Using bags shall not cause any harm for consumer when used.

4.7 The bag shall be used one time only.

4.8 Paper used in the processing of tea and herbs bags shall have the following characteristics:

4.8.1 It shall be free from any abnormal odors.

4.8.2 It shall be produced from non-recycled materials.

4.8.3 It shall be sterilized against microbes and germs.

4.8.4 It shall be free from any harmful materials for public health.

4.8.5 The maximum of emigration of cadmium, lead and mercury from

From the paper to the final products, shall not exceed the following (mg/Decimeters²):

Cadmium	0.002	Lead	0.003	Mercury	0.002
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4.8.6 Maximum content for emigrated pentachlorophenol from the paper to the product shall not exceed 0.15 mg/ kg paper.

4.8.7 Moisture content of the paper shall be in the range from 6 to 10 %.

4.8.8 Brightness of paper shall not be less than 75%.

4.8.9 Density of the paper shall range from 16.5- 21 g/m².

4.8.10 Filtration rate of the paper shall not be less than 750 ml/ minute.

4.8.11 Air penetration of the paper shall not be less than 18000 km/h.

4.8.12 Dry tensile strength of the paper shall range from 8.5- 11 N/m.

4.8.13 Wet tensile strength of the paper shall range from 0.8- 1.2 N/m.

4.8.14 The characteristics of the paper shall permit soluble solids of the product to penetrate it when put the bag in the hot water.

4.9 Tea and herbs bags shall be closed after packing with the product with pressing or thermo pressing process or with cotton threads .

4.10 The process of closing the bags after packing, be done well, so as not to permit loss of any packed product.

4.11 The threads used either for closing the bags or for connecting between packed bags and paper tag shall be processed from cotton threads.

4.12 Pesticide residues in used cotton threads shall not exceed the limit mentioned in Gulf Standard stated in Item (2.17).

4.13 Thread, clips or glue can be used for fixing the tag.

4.14 Microbiological criteria for the product shall be complying with the Gulf Standard stated in Item (2.7).

4.15 Radioactivity limits for the product shall be complying with the Gulf Standard stated in Item (2.6).

5-Sampling:

Samples shall be taken according to Gulf Standard stated in Item (2.9).

6-Methods of examination and test:

The following tests shall be carried out on the sample taken according to Item (5) to determine its compliance for the items of this standard:

6.1 Determination of moisture:

Determination of moisture shall be carried out according to Gulf Standard stated in Item (2.16) .

6.2 Determination of dry and wet tensile strength:

Determination of dry and wet tensile strength shall be carried out according to Gulf Standard stated in Item (2.11) .

6.3 Determination of air penetration:

Determination of air penetration for the paper shall be carried out according to Gulf Standard stated in Item (2.10) .

6.4 Determination of paper density:

Determination of paper density shall be carried out according to Gulf Standard Stated in Item (2.12).

6.5 Determination of paper brightness:

Determination of paper brightness shall be carried out according to Gulf Standard stated in Item (2.15).

6.6 Determination of pentachlorophenol:

Determination of pentachlorophenol shall be carried out according to Gulf Standard stated in Item (2.13).

6.7 Determination of metallic elements:

Determination of metallic elements shall be carried out according to Gulf Standard Stated in Item (2.14).

6.8 Determination of microbiological requirements:

Determination of microbiological requirements for packaging paper shall be carried out according to Gulf Standard stated in Item (2.17).

7-Packaging, transportation and storage:**7.1 Packaging:**

7.1.1 Tea or herbs bags shall be packed in containers made of firm paper (secondary container) to protect it from damage and spoilage .

7.1.2 Tea or herbs bags may be packed in single paper bags, well closed with pressing or thermo pressing, so these paper bags shall be packed in firm paper containers (secondary containers).

7.2 Transportation and storage:

7.2.1 Transportation and storage of the product shall be carried out in such a way not lead to spoil or damage of the product

7.2.2 Transportation and storage of the product shall be carried out in such a way to avoid influence of any odor and chemical materials, and in a stores complying with Gulf Standard stated in Item (2.4).

8- Labelling:

Without prejudice to what mentioned in Gulf Standard stated in Items (2.1), (2.3)

the following shall be declared on the label of tea or herbs:

8.1 Number of tea or herbs bags in each container,

8.2 Net weight for each bag,

8.3 Product name and its trade mark.